Author Index of Volumes 233 and 234

Abad, H., 148
Abelès, F., 166, 260
Abraham, M., 264
An, I., 244, 276
Andújar, J. L., 223
Arai, A., 268
Arvia, A. J., 74, 77, 82
Arzt, M., 463
Asinovsky, L. M., 210
Aspnes, D. E., 1
Azzam, R. M. A., 371

Babonas, G.-J., 508
Badoz, J., 491
Baeri, P., 203
Bagnato, V. S., 131
Barbero, C., 63, 69
Barrera, R. G., 24
Barth, K.-L., 314
Basmaji, P., 131
Bekker, H. G., 28
Belokoneva, E., 508
Belyi, M. U., 542
Benitah, L., 566
Berkovits, V. L., 9
Bertran, E., 223
Bhat, I. B., 293
Bichri, A., 496
Blaschta, F., 463
Blunt, R., 171
Boca, I., 207
Boccara, A. C., 375
Böhme, D., 314
Bolzán, A. E., 77
Borensztein, Y., 24
Borghesi, A., 203, 227
Bortchagovsky, E. G., 553
Bremer, J., 342
Brevet-Philibert, O., 408
Bridou, F., 458
Brink, D. J., 189
Brodkin, J. S., 512
Bulhoes, O. L., 74
Bungay, A. R., 545
Burkhard, H., 145
Buslaps, T., 549
Bzhestowski, O. Yu., 536

Campany, J., 223
Canillas, A., 223, 318
Cardona, M., 137, 141, 185, 314, 518, 522
Carline, R. T., 40, 126, 171
Caymax, M., 159
Cazabat, A. M., 475, 482
Chao, F., 91
Chen, L.-Y., 385
Chindaudom, P., 439
Collins, R. W., 244, 272, 276
Costa, J., 223
Costa, M., 91
Crean, G. M., 199, 214

Dagys, R., 508
Dakshinamurthy, S., 293
Dancygier, M., 566
Dartnell, N. J., 214
De Laet, J., 58
Dinges, H. W., 145
Dittmar, G., 346
Doerr, D., 293
Drévillon, B., 256, 281, 318, 363, 503
da Silva, M. P., 557
de Boeij, P. L., 14, 28
de Hoog, F. J., 323
den Boer, J. H. W. G., 323

Eichler, M., 337
El Rhaleb, H., 375
El-Ghazzawi, M. E., 218
Escadafals, L., 412
Etchegoin, P., 137, 141

Feng, X.-W., 385
Fisson, S., 166, 260
Flevaris, N. K., 538
Franzen, W., 512
Fraysse, N., 475, 482
Fredriksz, C. W., 153
Fried, M., 117
Frigerio, J.-M., 458, 566
Fukazawa, T., 390

Gancheryonok, I. I., 380
Garawal, N. S., 171
Garland, J. W., 148
Garriga, M., 122, 185, 561
Gauch, M., 53
Germanova, K., 231
Getsko, O. M., 553
Gilles, J., 412
Gombert, A., 327, 352
Gong, K. C., 468
Gopalan, S., 522
Graf, W., 327
Gravesteijn, D. J., 153
Gray, D. E., 126, 214
Greef, R., 32, 126, 214
Grimaldi, M. G., 203
Grivickas, V., 131
Grosse, P., 346
Gruska, B., 240
Gyulai, J., 117

Haas, O., 69
Habermeier, H.-U., 518
Hanekamp, L. J., 117
Hase, A., 180
Haverlag, M., 323
He, P., 46
He, X.-F., 468
Heinzel, A., 327
Hénon, S., 471
Heslot, F., 475, 482

Hollering, R. W. J., 153
Holý, V., 158
Hori, N., 218
Horn, K., 176
Hrdina, J., 50
Hu, Y.-Z., 402
Humlíček, J., 185, 332, 518
Hunderi, O., 194, 342, 496

Ianno, N. J., 253, 286
Irene, E. A., 96

Jacobson, R. D., 46
Jans, J. C., 153
Jastrabík, L., 500
Jellison, Jr., G. E., 416
Jeynes, C., 199
Jin, G., 91, 375
Joerger, R., 327
Johnson, R. L., 538, 549
Johs, B., 46, 253, 293, 395, 443
Juanto, S., 74
Jungk, G., 427, 549

Kamarás, K., 314, 518
Keilmann, F., 314
Kelly, M., 122
Kelly, P. V., 199
Kim, C. C., 148
Kirby, P., 171
Kircher, J., 141, 185, 518, 522
Kirillova, M. M., 527, 531
Knyazev, Yu. V., 527
Köhl, M., 327, 352
Korte, E. H., 486
Kötz, R., 63, 69
Kregždé, V., 508
Kreyßig, E., 463
Kroesen, G. M. W., 323
Krost, A., 180
Kubeňa, J., 158
Kudryavtsev, Yu. V., 536
Kunzel, H., 180
Kurz, H., 112
Kushida, T., 380
Kuzmin, Yu. I., 527

Lafait, J., 496
Landgren, M., 478
Layadi, N., 281
LeLay, G., 264
Leo, K., 112
Leong, W. Y., 40, 126
Leonyuk, L., 508
Levinson, P., 475, 482
Líbenzný, M., 158
Lin, Y. Y., 468
Lindman, B., 478
Logothetidis, S., 538
Lohner, T., 117
Losch, R., 145

Lu, Y., 244
Lukeš, F., 162
Lynch, S., 199, 214

Ma, H.-Z., 385
Macchi, E., 77
Maes, H. E., 423
Makhnev, A. A., 531
Mariani, J. L., 412
Masetti, E., 557
McGahan, W. A., 46, 253, 443
McNeil, J. R., 46
Messier, R., 276
Meunier, J., 471
Michaelis, A., 86
Miguez, M. I., 74
Mikkelsen, H., 112
Miyazaki, M., 236
Mo, D., 468
Mochan, W. L., 24
Monin, J., 408
Monnier, G., 503
Montecchi, M., 557
Müller, A. B., 19
Murtagh, M., 199

Nafis, S., 253
Nayar, V., 40
Neuhold, G., 185
Nguyen Van, V., 166, 260
Nguyen, H. V., 117, 244, 272, 276
Nickel, H., 145
Nomerovannaya, L. V., 531

Oechsner, H., 297
Offermann, V., 346
Oka, T., 218
Orloff, G. J., 46
Osiceanu, P., 561
Ossikovski, R., 363, 503
Ozanyan, K. B., 194
O'Connor, M., 199

Paget, D., 9
Parjadis de Larivière, G., 458
Parlog, C., 561
Pascual, E., 318, 503
Petalas, J., 538
Pickering, C., 40, 126, 171
Pidduck, A. J., 40
Piel, J. P., 301, 356, 447, 451
Pittal, S., 286, 293
Ploog, K., 122, 162
Pohlen, M., 346
Poll, H. U., 463
Poortmans, J., 158
Poperenko, L. V., 542
Popescu, G., 207
Poppe, G. P. M., 28
Pukinskas, G., 508

Qian, Y.-H., 385
Quentel, G., 53

Raccah, P. M., 148
Rauh, M., 289
Reinhardt, F., 19
Reins, J., 486
Reitano, R., 203
Resch, U., 19
Richter, W., 19, 112, 176, 180, 402
Rimbourg, L., 503
Rivory, J., 166, 260, 458
Robbins, D. J., 40, 126
Rochotzki, R., 463
Roci i Cabarrocas, P., 281
Roehle, H., 180
Roger, J. P., 91, 375
Rojas, S., 227
Rose, K. C., 19
Röseler, A., 307, 332, 337, 486, 518
Rossow, U., 19, 176, 180
Rostaing, J. C., 256
Roussel, Ph. J., 423
Russev, S., 231

Sagalyn, P. L., 152
Sahsah, H., 408
Saikan, S., 380
Saitoh, T., 218, 236
Sakai, A., 218
Sakayanagi, N., 390
Sano, M., 390
Sassella, A., 203, 227
Schaikevich, I. A., 542
Schatke, K., 180
Schlapp, W., 145
Schmidt, U. I., 297
Schnyder, B., 63, 69
Schröder, B., 297
Schultze, J. W., 86
Segaud, J. P., 503
Seidl, J., 500
Sengupta, L. C., 512
Shirai, H., 363
Silverman, M. P., 491
Sîroký, P., 500
Smardz, L., 536
Smit, J. E., 189
Snyder, P. G., 253, 286, 399
Sobota, J., 500
Spanos, L., 402
Stehlé, J. L., 171, 301, 356, 375, 518
Su, Y., 385
Surdutovich, G. I., 131
Suzuki, K., 236
Svirko, Yu. P., 545

Tadjeddine, A., 24
Tan, J. H., 468

Tarriba, J., 24
Terryn, H., 58
Thomas, O., 301, 356
Tian, C., 91
Tiberg, F., 478
Toussaere, E., 432, 454
Toyoshima, Y., 367
Trepk, Th., 112, 402

Valcheva, E., 231
Valignat, M. P., 475, 482
Vallon, S., 256
Van Ammel, A., 158
Vanhellemont, J., 58, 158, 423
Vedam, K., 117, 276, 439
Vela, M. E., 82
Vereecken, J., 58
Vetkin, A., 508
Vilche, J. R., 74
Vitlina, R., 131
Vuye, G., 166, 260
van Silfhout, A., 14, 117

Wandel, K., 240
Wang, Y., 166, 260
Watanabe, Y., 236
Weidner, M., 337
Weimar, U., 327, 352
Wentink, D. J., 14, 28
Werninghaus, T., 176, 180
Wijers, C. M. J., 28
Wißmann, P., 289
Witham, H. S., 276
Wold, E., 342, 496
Wölfel, M., 289
Woollam, J. A., 46, 253, 399, 443
Wormeester, H., 14

Xiong, Y.-M., 399

Yakovlev, V., 281
Yamamoto, M., 268
Yoshida, Yu., 390
Yu, Z. X., 468

Zahn, D. R. T., 176
Zahorski, D., 412
Zalczer, G., 356
Zerbino, J. O., 74, 77, 82
Zettler, J.-Th., 112, 402
Zhang, G. P., 468
Zhang, K.-Y., 260
Zheludev, N. I., 545
Zhou, G. Z., 468
Zhu, J., 214
Zollner, S., 185
Zyss, J., 432, 454

Subject Index of Volume 233 and 234

Adhesion
ellipsometric study of adsorption isotherms, 482
ellipsometry study of the adhesion of dielectric thin films on polymer substrates, 256
Adsorption
analysis of the oxidation of polycrystalline zinc selenide by spectroscopic ellipsometry and photothermal deflection spectroscopy, 557
ellipsometric study of adsorption isotherms, 482
interfacial behaviour of non-ionic surfactants at the silica–water interface revealed by ellipsometry, 478
Alloys
non-destructive characterization of III–V alloy multilayer structures using spectroscopic ellipsometry, 171
Aluminium
characterization of different conversion coatings on aluminium with spectroscopic ellipsometry, 58
possibilities and limitations of ellipsometry, 428
Aluminium oxide
anodic oxidation of aluminium in sulphuric acid monitered by *ex-situ* and *in-situ* spectroscopic ellipsometry, 63
in situ diagnosis of a-Si:H-metal interface reactions using IR spectroscopic reflectrometry, 367
IR ellipsometry of the highly anisotropic materials: α-SiO_2 and α-Al_2O_3, 332
studies on inhomogeneous transparent optical coatings on transparent substrates by spectroscopic ellipsometry, 439
Amorphous materials
ellipsometric spectroscopy of valence states in amorphous metallic alloys, 542
hydrogen diffusion and reaction processes in thin films investigated by real time spectroscopic ellipsometry, 276
in situ ellipsometric study of the influence of powder formation on the initial growth of glow discharge a-Si:H, 297
in situ investigation by IR ellipsometry of the growth and interfaces of amorphous silicon and related materials, 363
techniques for ellipsometric measurement of the thickness and optical constants of thin absorbing films, 443
Anisotropy
determination of porous silicon film parameters by polarized light reflectance measurements, 131
effect of anisotropy on microellipsometry in the Ti/TiO_2 system, 86
ellipsometry and reflectance of inhomogeneous and anisotropic media: a new computationally efficient approach, 432
ellipsometry and reflectivity at the Brewster angle: tools to study the bending elasticity and phase transitions in monolayers at liquid interfaces, 471
full microscopic treatment of the optical response of the Si(100) 2×1 surface, 28
hydrogen-terminated Si(100) surfaces investigated by reflectance anisotropy spectroscopy, 19
invisible layers in ellipsometry, 553
IR spectroscopic ellipsometry: transmission studies on liquid crystals, 486
optical anisotropy of Ge(001), 14
variable angle spectroscopic ellipsometry: application to poled polymers for non-linear optics, 454
Anodic oxidation
effect of anisotropy on microellipsometry in the Ti/TiO_2 system, 86
ellipsometry and electron diffraction study of anodically formed Pd oxide layers, 77
spectroscopic ellipsometry of carbon electrodes during electrochemical activation, 69
Arsenic
hydrogen-terminated Si(100) surfaces investigated by reflectance anisotropy spectroscopy, 19
Atomic force microscopy
optical spectra of a conducting polymer (polymethyl-3-thiophene) at several stages of the electrodeposition process, 91
surface roughness and optical properties of high quality Si epitaxial layers, 40

Band structure
ellipsometric spectra and fractional derivative spectrum analysis of polyaniline films, 468
ellipsometric spectroscopy of valence states in amorphous metallic alloys, 542
possibilities and limitations of ellipsometry, 428
spectroellipsometric study of phase transitions in d and f metals in ultrahigh vacuum, 527
spectroscopic ellipsometric and magneto-optical study of Cu/Fe multilayers, 536
Barium
optical properties of the Y–Ba cuprates: mainly a band structure point of view, 522

Cadmium
experimental roughness excitation of surface electromagnetic waves and their detection by ellipsometry, 53
Cadmium telluride
real-time monitoring and control during MOVPE growth of CdTe using multi-wavelength ellipsometry, 293
Carbon
in situ ellipsometry of soft X-ray multilayer fabrication, 268
techniques for ellipsometric measurement of the thickness and optical constants of thin absorbing films, 443
Chemical vapour deposition
in situ ellipsometric study of the influence of powder formation on the initial growth of glow discharge a-Si:H, 297
Coatings
characterization of different conversion coatings on aluminium with spectroscopic ellipsometry, 58
optical properties of plasma polymer films (hexamethyldisiloxane), 463
spectroscopic ellipsometry characterization of the index profile in inhomogeneous thin films, 451
studies on inhomogeneous transparent optical coatings on transparent substrates by spectroscopic ellipsometry, 439
Computer simulation
data analysis for spectroscopic ellipsometry, 416
numerical aspects of the implementation of effective-medium approximation models in spectroscopic ellipsometry regression software, 423
Copper
ellipsometric studies on the oxidation of thin copper films, 289
Corrosion
ellipsometry of iron hydrous oxide layers formed by potentiodynamic techniques, 74

Crystallization
IR phase-modulated ellipsometer using a Fourier transform spectrometer for *in situ* applications, 318
optimization of the polycrystalline silicon-on-silicon dioxide characterization using spectroscopic ellipsometry, 210
Cuprous oxide
optical study of the doping effect of oxygen in $YBa_2Cu_3O_y$ and $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals, 531
relationship between microstructure and optical properties in high T_c superconductors, 508

Deposition process
in situ ellipsometric study of the influence of powder formation on the initial growth of glow discharge a-Si:H, 297
in situ ellipsometry of soft X-ray multilayer fabrication, 268
Depth profiling
IR spectroscopic ellipsometry: instrumentation and applications in semiconductors, 356
non-destructive depth profiling of silicon ion implantation induced damage in silicon (100) substrates, 199
optimization of the polycrystalline silicon-on-silicon dioxide characterization using spectroscopic ellipsometry, 210
studies on inhomogeneous transparent optical coatings on transparent substrates by spectroscopic ellipsometry, 439
Dielectric properties
determination of the refractive index of metal/ceramic composites and their components by spectroscopic ellipsometry and effective medium theories, 327
ellipsometric characterisation of InP-based quantum well structures, 180
extension of spectroscopic ellipsometry to the far infrared, 346
far-IR spectroscopic ellipsometer, 314
high precision UV–visible–near-IR Stokes vector spectroscopy, 402
modulated ellipsometry for characterization of multiple quantum wells and superlattices, 112
numerical aspects of the implementation of effective-medium approximation models in spectroscopic ellipsometry regression software, 423
optical properties of the Y–Ba curprates: mainly a band structure point of view, 522
spectroscopic ellipsometry study of the relaxation state of amorphous silicon, 203
spectroscopic IR ellipsometry of [100] and [001] oriented $YBa_2Cu_3O_{7-\delta}$ films, 342
temperature dependence of the dielectric function and interband critical points of AlAs obtained on an MBE grown layer, 122
temperature dependence of the dielectric function and the interband critical-point parameters of GaP, 185
temperature dependence of the dielectric function of silicon using *in situ* spectroscopic ellipsometry, 166

Electric properties and measurements
applications of spectroscopic ellipsometry to microelectronics, 96
Electrochemistry
anodic oxidation of aluminium in sulphuric acid monitored by *ex-situ* and *in-situ* spectroscopic ellipsometry, 63
ellipsometry in electrochemistry: a spectrum of applications, 32
ellipsometry of iron hydrous oxide layers formed by potentiodynamic techniques, 74
Ellipsometry
analysis of critical points in semiconductor optical functions from *in situ* and real-time spectroscopic ellipsometry, 272
analysis of the oxidation of polycrystalline zinc selenide by spectroscopic ellipsometry and photothermal deflection spectroscopy, 557
anodic oxidation of aluminium in sulphuric acid monitered by *ex-situ* and *in-situ* spectroscopic ellipsometry, 63
applications of spectroscopic ellipsometry to microelectronics, 96
broadband spectroscopic ellipsometry based on a Fourier transform spectrometer, 352
characterisation of silicon on insulator multilayers using *ex situ* spectroscopic ellipsometry and *in situ* monochromatic ellipsometry during plasma etching, 214
characterization of different conversion coatings on aluminium with spectroscopic ellipsometry, 58
characterization of radiative surface modes and anisotropy in Ag/SiO_2 multilayers, by visible and IR ellipsometry, 496
data analysis for spectroscopic ellipsometry, 416
detection and characterization of transient surface periodic structures formed during pulsed-laser annealing of semiconductor surfaces by ellipsometry, 189
determination of accurate critical-point energies, linewidths and line shapes from spectroscopic ellipsometry data, 148
determination of the refractive index of metal/ceramic composites and their components by spectroscopic ellipsometry and effective medium theories, 327
determination of the sign of Δ in spectroscopic ellipsometry without a quarter-wave plate: calculation and applications, 447
effect of anisotropy on microellipsometry in the Ti/TiO_2 system, 86
electron cyclotron resonance etching of semiconductor structures studied by *in-situ* spectroscopic ellipsometry, 253
ellipsometric characterization of hydrogen-rich oxynitride films, 227
ellipsometric investigation of ion implanted silicon, 207
ellipsometric spectra and fractional derivative spectrum analysis of polyaniline films, 468
ellipsometric spectroscopy of valence states in amorphous metallic alloys, 542
ellipsometric study of adsorption isotherms, 482
ellipsometric study of layered droplets, 475
ellipsometric study of specular reflection from a naturally optically active medium, 491
ellipsometry and electron diffraction study of anodically formed Pd oxide layers, 77
ellipsometry and reflectance of inhomogeneous and anisotropic media: a new computationally efficient approach, 432
ellipsometry and reflectivity at the Brewster angle: tools to study the bending elasticity and phase transitions in monolayers at liquid interfaces, 471
ellipsometry in electrochemistry: a spectrum of applications, 32
ellipsometry of iron hydrous oxide layers formed by potentiodynamic techniques, 74
ellipsometry of ultrathin Mo and Si films, 500
ellipsometry study of non-uniform lateral growth of ZnO thin films, 286
ellipsometry study of the adhesion of dielectric thin films on polymer substrates, 256
estimation of the quality of polished optical glass surfaces by spectral ellipsometry, 50
ex situ variable angle spectroscopic ellipsometry studies of electron cyclotron resonance etching of $Hg_{1-x}Cd_xTe$, 46
experimental roughness excitation of surface electromagnetic waves and their detection by ellipsometry, 53

extension of spectroscopic ellipsometry to the far infrared, 346
fastest real time spectroscopic ellipsometry: applications and limitations for *in situ* and quality control, 301
full microscopic treatment of the optical response of the Si(100) 2×1 surface, 28
high precision UV–visible–near-IR Stokes vector spectroscopy, 402
hydrogen diffusion and reaction processes in thin films investigated by real time spectroscopic ellipsometry, 276
improved rotating analyser-polarizer type of scanning ellipsometer, 385
influence of temperature and pressure on the structure of remote plasma enhanced chemically vapour deposited SiO_2 investigated by spectroscopic ellipsometry, 240
in situ ellipsometric study of the influence of powder formation on the initial growth of glow discharge a-Si:H, 297
in situ ellipsometry of soft X-ray multilayer fabrication, 268
in situ investigation by IR ellipsometry of the growth and interfaces of amorphous silicon and related materials, 363
in-situ dual-wavelength and *ex-situ* spectroscopic ellipsometry studies of strained SiGe epitaxial layers and multi-quantum well structures, 126
interfacial behaviour of non-ionic surfactants at the silica–water interface revealed by ellipsometry, 478
investigation of ferrite surface treatments by spectroscopic ellipsometry, 566
investigation of the system InSb–SiO_2 by spectroscopic multiangle ellipsometry, 231
invisible layers in ellipsometry, 553
ion-implantation-caused special damage profiles determined by spectroscopic ellipsometry in crystalline and in relaxed (annealed) amorphous silicon, 117
IR ellipsometry investigations of N_2O-nitrided silicono oxide thin films on silicon, 337
IR ellipsometry of the highly anisotropic materials: α-SiO_2 and α-Al_2O_3, 332
IR phase-modulated ellipsometer using a Fourier transform spectrometer for *in situ* applications, 318
IR spectroscopic ellipsometry: instrumentation and applications in semiconductors, 356
IR spectroscopic ellipsometry: transmission studies on liquid crystals, 486
IR spectroscopic ellipsometry: instrumentation and results, 307
mid- and near-IR ellipsometry of $Y_{1-x}Pr_xBa_2Cu_3O_7$ epitaxial films, 518
modelling of ellipsometric data of inhomogeneous TiO_2 films, 458
modulated ellipsometry for characterization of multiple quantum wells and superlattices, 112
multichannel polarization state detectors for time-resolved ellipsometry, 371
new and high precision achromatic ellipsometer: a two-channel and polarization rotator method, 408
new developments in spectroellipsometry: the challenge of surfaces, 1
non-destructive characterization of III–V alloy multilayer structures using spectroscopic ellipsometry, 171
non-destructive depth profiling of silicon ion implantation induced damage in silicon (100) substrates, 199
novel method for stabilizing the photoelastic modulator used in a polarization modulated spectroscopic ellipsometer, 390
numerical aspects of the implementation of effective-medium approximation models in spectroscopic ellipsometry regression software, 423
optical properties of plasma polymer films (hexamethyldisiloxane), 463
optical study of the doping effect of oxygen in $YBa_2Cu_3O_y$ and $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals, 531
optical studies of Cu–Ni, Pd–Ni and Co–Pt multilayers by conventional and synchrotron radiation ellipsometry, 538
optimization of the polycrystalline silicon-on-silicon dioxide characterization using spectroscopic ellipsometry, 210
photoellipsometry: a modulation spectroscopy method applied to n-type GaAS, 399
possibilities and limiatations of ellipsometry, 428
real time spectroscopic ellipsometry for characterization of nucleation, growth, and optical functions of thin films, 244
real-time monitoring and control during MOVPE growth of CdTe using multi-wavelength ellipsometry, 293
regression calibration method for rotating element ellipsometers, 395
Si- and Ge-like features in the dielectric function of Si_nGe_m superlattices, 153
spectroellipsometric characterization of lanthanide-doped TiO_2 films obtained via the sol–gel technique, 561
spectroellipsometric study of phase transitions in d and f metals in ultrahigh vacuum, 527
spectroellipsometric study of the growth and phase transitions of a two-dimensional metal: Pb on Ge(111), 264
spectroscopic ellipsometry characterization of the index profile in inhomogeneous thin films, 451
spectroscopic ellipsometry of carbon electrodes during electrochemical activation, 69
spectroscopic ellipsometry of strained $Si_{1-x}Ge_x$ layers, 158
spectroscopic ellipsometry on 1T–$TiSe_2$, 549
spectroscopic ellipsometry study of the relaxation state of amorphous silicon, 203
spectroscopic ellipsometry under external excitation, 375
spectroscopic ellipsometry: a new tool for "on line" quality control, 412
spectroscopic ellipsometry: a useful tool to determine the refractive indices and interfaces of $In_{0.52}Al_{0.48}As$ and $In_{0.53}Al_xGa_{0.47-x}As$ on InP in the wavelength range from 280 to 1900 nm, 145
spectroscopic IR ellipsometry of [100] and [001] oriented $YBa_2Cu_3O_{7-\delta}$ films, 342
spectroscopic IR ellipsometry with imperfect components, 323
spectroscopic transmission ellipsometry studies of intersub-band transitions in n-GaAs/$Al_{0.3}Ga_{0.7}As$ quantum wells, 194
spectroscopic variations of optical constant and emissivity of Pt–Al_2O_3 cermet thin films, 503
studies on inhomogeneous transparent optical coatings on transparent substrates by spectroscopic ellipsometry, 439
study by real time ellipsometry of the growth of amorphous and microcrystalline silicon thin films combining glow discharge decomposition and UV light irradiation, 281
study of CaF_2 growth on Si, a-SiO_2 by *in situ* spectroscopic ellipsometry, 260
surface characterization of metal plates exposed to atomic oxygen in space, 512
surface roughness and optical properties of high quality Si epitaxial layers, 40
variable angle spectroscopic ellipsometry: application to poled polymers for non-linear optics, 454

Epitaxy
effect of anisotropy on microellipsometry in the Ti/TiO_2 system, 86

in-situ dual-wavelength and *ex-situ* spectroscopic ellipsometry studies of strained SiGe epitaxial layers and multi-quantum well structures, 126
new developments in spectroellipsometry: the challenge of surfaces, 1
spectroscopic ellipsometry of strained $Si_{1-x}Ge_x$ layers, 158
thin epitaxial films of wide-gap II–VI compounds studied by spectroscopic ellipsometry, 176
Etching
characterisation of silicon on insulator multilayers using *ex situ* spectroscopic ellipsometry and *in situ* monochromatic ellipsometry during plasma etching, 214
electron cyclotron resonance etching of semiconductor structures studied by *in-situ* spectroscopic ellipsometry, 253
ex situ variable angle spectroscopic ellipsometry studies of electron cyclotron resonance etching of $Hg_{1-x}Cd_xTe$, 46
fastest real time spectroscopic ellipsometry: applications and limitations for *in situ* and quality control, 301

Fluorine
study of CaF_2 growth on Si, a-SiO_2 by *in situ* spectroscopic ellipsometry, 260
Fourier transform infrared spectroscopy
broadband spectroscopic ellipsometry based on a Fourier transform spectrometer, 352
ellipsometry study of the adhesion of dielectric thin films on polymer substrates, 256
extension of spectroscopic ellipsometry to the far infrared, 346
far-IR spectroscopic ellipsometer, 314
influence of temperature and pressure on the structure of remote plasma enhanced chemically vapour deposited SiO_2 investigated by spectroscopic ellipsometry, 240
IR ellipsometry investigations of N_2O-nitrided silicon oxide thin films on silicon, 337
IR phase-modulated ellipsometer using a Fourier transform spectrometer for *in situ* applications, 318
IR spectroscopic ellipsometry: instrumentation and applications in semiconductors, 356
IR spectroscopic ellipsometry: transmission studies on liquid crystals, 486
IR spectroscopic ellipsometry: instrumentation and results, 307

Gallium
temperature dependence of the dielectric function and the interband critical-point parameters of GaP, 185
Gallium arsenide
characterization of SiO_2–GaAs interface structures using spectroscopic ellipsometry, 236
determination of accurate critical-point energies, linewidths and line shapes from spectroscopic ellipsometry data, 148
dielectric function of GaAs/AlAs superlattices grown on GaAs substrates with different orientation, 162
photoellipsometry: a modulation spectroscopy method applied to n-type GaAs, 339
reflectance anisotropy spectroscopy: a new method for semiconductor surface chemistry investigation, 9
spectroscopic transmission ellipsometry studies of intersub-band transitions in n-GaAs/$Al_{0.3}Ga_{0.7}As$ quantum wells, 194
temperature dependence of the dielectric function and interband critical points of AlAs obtained on an MBE grown layer, 122
Germanium
in-situ dual-wavelength and *ex-situ* spectroscopic ellipsometry studies of strained SiGe epitaxial layers and multi-quantum well structures, 126
optical anisotropy of Ge(110), 14
spectroellipsometric study of the growth and phase transitions of a two-dimensional metal: Pb on Ge(111), 264
Glass
estimation of the quality of polished optical glass surfaces by spectral ellipsometry, 50
Glow discharge
optical properties of plasma polymer films (hexamethyldisiloxane), 463
Gold
ellipsometric study of hydrous gold oxide layers and gold surfaces resulting from their electroreduction, 82
in situ ellipsometry of soft X-ray multilayer fabrication, 268
Graphite
spectroscopic ellipsometry of carbon electrodes during electrochemical activation, 69
Growth mechanism
characterization of different conversion coatings on aluminium with spectroscopic ellipsometry, 58
ellipsometry and electron diffraction study of anodically formed Pd oxide layers, 77
in situ ellipsometric study of the influence of powder formation on the initial growth of glow functions of glow discharge a-Si:H, 297
real time spectroscopic ellipsometry for characterization of nucleation, growth, and optical functions of thin films, 244

Heterostructures
spectroscopic transmission ellipsometry studies of intersub-band transitions in n-GaAs/$Al_{0.3}Ga_{0.7}As$ quantum wells, 194
Hydrogen
hydrogen diffusion and reaction processes in thin films investigated by real time spectroscopic ellipsometry, 276
hydrogen-terminated Si(100) surfaces investigated by reflectance anisotropy spectroscopy, 19

Indium
ellipsometric characterisation of InP-based quantum well structures, 180
Indium phosphide
spectroscopic ellipsometry: a useful tool to determine the refractive indices and interfaces of $In_{0.52}Al_{0.48}As$ and $In_{0.53}Al_xGa_{0.47-x}As$ on InP in the wavelength range from 280 to 1900 nm, 145
Infrared spectroscopy
in situ diagnosis of a-Si:H-metal interface reactions using IR spectroscopic reflectometry, 367
in situ investigation by IR ellipsometry of the growth and interfaces of amorphous silicon and related materials, 363
IR ellipsometry of the highly anisotropic materials: α-SiO_2 and α-Al_2O_3, 332
spectroscopic IR ellipsometry of [100] and [001] oriented $YBa_2Cu_3O_{7-\delta}$ films, 342
spectroscopic IR ellipsometry with imperfect components, 323
spectroscopic transmission ellipsometry studies of intersub-band transitions in n-GaAs/$Al_{0.3}Ga_{0.7}As$ quantum wells, 194
Interfaces
applications of spectroscopic ellipsometry to microelectronics, 96
in situ diagnosis of a-Si:H-metal interface reactions using IR spectroscopic reflectometry, 367

in situ investigation by IR ellipsometry of the growth and interfaces of amorphous silicon and related materials, 363
Ion bombardment
applications of spectroscopic ellipsometry to microelectronics, 96
spectroscopic ellipsometry study of the relaxation state of amorphous silicon, 203
Ion implantation
ellipsometric investigation of ion implanted silicon, 207
ion-implantation-caused special damage profiles determined by spectroscopic ellipsometry in crystalline and in relaxed (annealed) amorphous silicon, 117
non-destructive depth profiling of silicon ion implantation induced damage in silicon (100) substrates, 199
Iron
ellipsometry of iron hydrous oxide layers formed by potentiodynamic techniques, 74
spectroscopic ellipsometric and magneto-optical study of Cu/Fe multilayers, 536

Lanthanides
spectroellipsometric characterization of lanthanide-doped TiO_2 films obtained via the sol–gel technique, 561
Laser irradiation
detection and characterization of transient surface periodic structures formed during pulsed-laser annealing of semiconductor surfaces by ellipsometry, 189
study by real time ellipsometry of the growth of amorphous and microcrystalline silicon thin films combining glow discharge decomposition and UV light irradiation, 281
Lead
spectroellipsometric study of the growth and phase transitions of a two-dimensional metal: Pb on Ge(111), 264
Liquid crystals
IR spectroscopic ellipsometry: transmission studies on liquid crystals, 486

Magnetic properties and measurements
investigation of ferrite surface treatments by spectroscopic ellipsometry, 566
Mercury
specular optical activity in a-HgS, 545
Metals
spectroellipsometric study of phase transitions in d and f metals in ultrahigh vacuum, 527
surface characterization of metal plates exposed to atomic oxygen in space, 512
Molybdenum
determination of the refractive index of metal/ceramic composites and their components by spectroscopic ellipsometry and effective medium theories, 327
Monolayers
ellipsometry and reflectivity at the Brewster angle: tools to study the bending elasticity and phase transitions in monolayers at liquid interfaces, 471
Multilayers
characterization of radiative surface modes and anisotropy in Ag/SiO_2 multilayers, by visible and IR ellipsometry, 496
ellipsometry and reflectance of inhomogeneous and anisotropic media: a new computationally efficient approach, 432
ellipsometry of ultrathin Mo and Si films, 500
extension of spectroscopic ellipsometry to the far infrared, 346
high precision UV–visible–near-IR Stokes vector spectroscopy, 402
in-situ dual-wavelength and *ex-situ* spectroscopic ellipsometry studies of strained SiGe epitaxial and multi-quantum well structures, 126
non-destructive characterization of III–V alloy multilayer structures using spectroscopic ellipsometry, 171
optical studies of Cu–Ni, Pd–Ni and Co–Pt multilayers by conventional and synchrotron radiation ellipsometry, 538
Si- and Ge-like features in the dielectric function of Si_nGe_m superlattices, 153
spectroscopic ellipsometric and magneto-optical study of Cu/Fe multilayers, 536
spectroscopic ellipsometry: a new tool for "on line" quality control, 412
spectroscopic transmission ellipsometry studies of intersub-band transitions in n-GaAs/$Al_{0.3}Ga_{0.7}As$ quantum wells, 194

Nucleation
real time spectroscopic ellipsometry for characterization of nucleation, growth, and optical functions of thin films, 244

Optical activity
IR spectroscopic ellipsometry: transmission studies on liquid crystals, 486
Optical coatings
invisible layers in ellipsometry, 553
modelling of ellipsometric data of inhomogeneous TiO_2 films, 458
spectroellipsometric characterization of lanthanide-doped TiO_2 films obtained via the sol–gel technique, 561
study of CaF_2 growth on Si, a-SiO_2 by *in situ* spectroscopic ellipsometry, 260
Optical properties
analysis of critical points in semiconductor optical functions from *in situ* and real-time spectroscopic ellipsometry, 272
analysis of the oxidation of polycrystalline zinc selenide by spectroscopic ellipsometry and photothermal deflection spectroscopy, 557
anodic oxidation of aluminium in sulphuric acid monitered by *ex-situ* and *in-situ* spectroscopic ellipsometry, 63
broadband spectroscopic ellipsometry based on a Fourier transform spectrometer, 352
circular birefringence in zinc-blende-type semiconductors, 137
determination of porous silicon film parameters by polarized light reflectance measurments, 131
determination of the refractive index of metal/ceramic composites and their components by spectroscopic ellipsometry and effective medium theories, 327
effect of anisotropy on microellipsometry in the Ti/TiO_2 system, 86
ellipsometric characterization of hydrogen-rich oxynitride films, 227
ellipsometric investigation of ion implanted silicon, 207
ellipsometric spectra and fractional derivative spectrum analysis of polyaniline films, 468
ellipsometric spectroscopy of valence states in amorphous metallic alloys, 542
ellipsometric study of specular reflection from a naturally optically active medium, 491
ellipsometry study of non-uniform lateral growth of ZnO thin films, 286
improved rotating analyser-polarizer type of scanning ellipsometer, 385
investigation of ferrite surface treatments by spectroscopic ellipsometry, 566
IR spectroscopic ellipsometry: instrumentation and results, 307

modelling of ellipsometric data of inhomogeneous TiO_2 films, 458
new and high precision achromatic ellipsometer: a two-channel and polarization rotator method, 408
new developments in spectroellipsometry: the challenge of surfaces, 1
numerical aspects of the implementation of effective-medium approximation models in spectroscopic ellipsometry regression software, 423
optical properties of plasma polymer films (hexamethyldisiloxane), 463
optical properties of the Y–Ba cuprates: mainly a band structure point of view, 522
optical spectra of a conducting polymer (polymethyl-3-thiophene) at several stages of the electrodeposition process, 91
optical studies of Cu–Ni, Pd–Ni and Co–Pt multilayers by conventional and synchrotron radiation ellipsometry, 538
optical study of the doping effect of oxygen in $YBa_2Cu_3O_y$ and $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals, 531
optimization of the polycrystalline silicon-on-silicon dioxide characterization using spectroscopic ellipsometry, 210
photoellipsometry: a modulation spectroscopy method applied to n-type GaAs, 399
piezo-optical response of semiconductors, 141
real time spectroscopic ellipsometry for characterization of nucleation, growth, and optical functions of thin films, 244
relationship between microstructure and optical properties in high T_c superconductors, 508
Si- and Ge-like features in the dielectric function of Si_nGe_m superlattices, 153
spectroellipsometric study of phase transitions in d and f metals in ultrahigh vacuum, 527
spectroellipsometric study of the growth and phase transitions of a two-dimensional metal: Pb on Ge(111), 264
spectroscopic ellipsometric and magneto-optical study of Cu/Fe multilayers, 536
spectroscopic ellipsometry characterization of the index profile in inhomogeneous thin films, 451
spectroscopic ellipsometry of carbon electrodes during electrochemical activation, 69
spectroscopic ellipsometry of strained $Si_{1-x}Ge_x$ layers, 158
spectroscopic ellipsometry on 1T–$TiSe_2$, 549
spectroscopic ellipsometry study of the relaxation state of amorphous silicon, 203
spectroscopic ellipsometry: a useful tool to determine the refractive indices and interfaces of $In_{0.52}Al_{0.48}As$ and $In_{0.53}Al_xGa_{0.47-x}As$ on InP in the wavelength range from 280 to 1900 nm, 145
spectroscopic variations of optical constant and emissivity of Pt–Al_2O_3 cermet thin films, 503
specular optical activity in α-HgS, 545
study of CaF_2 growth on Si, α-SiO_2 by *in situ* spectroscopic ellipsometry, 260
study of thin films of transparent electronic materials by phase-modulated spectroellipsometry, 223
surface roughness and optical properties of high quality Si epitaxial layers, 40
techniques for ellipsometric measurement of the thickness and optical constants of thin absorbing films, 443
temperature dependence of the dielectric function of silicon using *in situ* spectroscopic ellipsometry, 166

Optical spectroscopy
analysis of critical points in semiconductor optical functions from *in situ* and real-time spectroscopic ellipsometry, 272
broadband spectroscopic ellipsometry based on a Fourier transform spectrometer, 352
ellipsometric studies on the oxidation of thin copper films, 289
ellipsometric study of specular reflection from a naturally optically active medium, 491
full microscopic treatment of the optical response of the Si(100) 2 × 1 surface, 28
mid- and near-IR ellipsometry of $Y_{1-x}Pr_xBa_2Cu_3O_7$ epitaxial films, 518
modulated ellipsometry for characterization of multiple quantum wells and superlattices, 112
new developments in spectroellipsometry: the challenge of surfaces, 1
novel method for stabilizing the photoelastic modulator used in a polarization modulated spectroscopic ellipsometer, 390
optical anisotropies of Ag single crystals, 24
optical studies of Cu–Ni, Pd–Ni and Co–Pt multilayers by conventional and synchrotron radiation ellipsometry, 538
peculiarities of non-linear spectroscopic ellipsometry of initially isotropic substances, 380
possibilities and limitations of ellipsometry, 428
real-time monitoring and control during MOVPE growth of CdTe using multi-wavelength ellipsometry, 293
regression calibration method for rotating element ellipsometers, 395

Organometallic vapour depositon
real-time monitoring and control during MOVPE growth of CdTe using multi-wavelength ellipsometry, 293

Oxidation
analysis of the oxidation of polycrystaline zinc selenide by spectroscopic ellipsometry and photothermal deflection spectroscopy, 557
ellipsometric studies on the oxidation of thin copper films, 289
surface characterization of metal plates exposed to atomic oxygen in space, 512

Oxides
ellipsometric study of hydrous gold oxide layers and gold surfaces resulting from their electroreduction, 82

Palladium
ellipsometry and electron diffraction study of anodically formed Pd oxide layers, 77

Phase transitions
ellipsometry and reflectivity at the Brewster angle: tools to study the bending elasticity and phase transitions in monolayers at liquid interfaces, 471

Piezoelectroc effect
piezo-optical response of semiconductors, 141

Plasma processing and deposition
analysis of critical points in semiconductor optical functions from *in situ* and real-time spectroscopic ellipsometry, 272
electron cyclotron resonance etching of semiconductor structures studied by *in-situ* spectroscopic ellipsometry, 253
influence of temperature and pressure on the structure of remote plasma enhanced chemically vapour deposited SiO_2 investigated by spectroscopic ellipsometry, 240
in situ ellipsometric study of the influence of powder formation on the initial growth of glow discharge a-Si:H, 297
study by real time ellipsometry of the growth of amorphous and microcrystalline silicon thin films combining glow discharge decomposition and UV light irradiation, 281

Polarization
multichannel polarization state detectors for time-resolved ellipsometry, 371
Polymers
ellipsometric spectra and fractional derivative spectrum analysis of polyaniline films, 468
ellipsometry study of the adhesion of dielectric thin films on polymer substrates, 256
optical spectra of a conducting polymer (polymethyl-3-thiophene) at several stages of the electrodeposition process, 91
variable angle spectroscopic ellipsometry: application to poled polymers for non-linear optics, 454

Quantum effects
modulated ellipsometry for characterization of multiple quantum wells and superlattices, 112
Quartz
IR ellipsometry of the highly anisotropic materials: α-SiO_2 and α-Al_2O_3, 332

Radiation damage
ion-implantation-caused special damage profiles determined by spectroscopic ellipsometry in crystalline and in relaxed (annealed) amorphous silicon, 117
Reflection spectroscopy
data analysis for spectroscopic ellipsometry, 416
determination of accurate critical-point energies, linewidths and line shapes from spectroscopic ellipsometry data, 148
ellipsometric study of specular reflection from a naturally optically active medium, 491
ellipsometry and reflectance of inhomogeneous and anisotropic media: a new computationally efficient approach, 432
optical anisotropies of Ag single crystals, 24
reflectance anisotropy spectroscopy: a new method for semiconductor surface chemistry investigation, 9

Secondary ion mass spectrometry
characterization of SiO_2–GaAs interface structures using spectroscopic ellipsometry, 236
Selenides
analysis of the oxidation of polycrystalline zinc selenide by spectroscopic ellipsometry and photothermal deflection spectroscopy, 557
Semiconductors
circular birefringence in zinc-blende-type semiconductors, 137
detection and characterization of transient surface periodic structures formed during pulsed-laser annealing of semiconductor surfaces by ellipsometry, 189
determination of accurate critical-point energies, linewidths and line shapes from spectroscopic ellipsometry data, 148
electron cyclotron resonance etching of semiconductor structures studied by *in-situ* spectroscopic ellipsometry, 253
non-destructive characterization of III–V alloy multilayer structures using spectroscopic ellipsometry, 171
piezo-optical response of semiconductors, 141
spectroscopic ellipsometry characterization of the index profile in inhomogeneous thin films, 451
spectroscopic ellipsometry under external excitation, 375
spectroscopic ellipsometry: a useful tool to determine the refractive indices and interfaces of $In_{0.52}Al_{0.48}As$ and $In_{0.53}Al_xGa_{0.47-x}As$ on InP in the wavelength range from 280 to 1900 nm, 145
study by real time ellipsometry of the growth of amorphous and microcrystalline silicon thin films combining glow discharge decomposition and UV light irradiation, 281
thin epitaxial films of wide-gap II–VI compounds studied by spectroscopic ellipsometry, 176
Silicon
analysis of critical points in semiconductor optical functions from *in situ* and real-time spectroscopic ellipsometry, 272
characterisation of silicon on insulator multilayers using *ex situ* spectroscopic ellipsometry and *in situ* monochromatic ellipsometry during plasma etching, 214
determination of porous silicon film parameters by polarized light reflectance measurements, 131
ellipsometric investigation of ion implanted silicon, 207
hydrogen-terminated Si(100) surfaces investigated by reflectance anisotropy spectroscopy, 19
in-situ dual-wavelength and *ex-situ* spectroscopic ellipsometry studies of strained SiGe epitaxial layers and multi-quantum well structures, 126
ion-implantation-caused special damage profiles determined by spectroscopic ellipsometry in crystalline and in relaxed (annealed) amorphous silicon, 117
non-destructive depth profiling of silicon ion implantation induced damage in silicon (100) substrates, 199
novel method for stabilizing the photoelastic modulator used in a polarization modulated spectroscopic ellipsometry, 390
optimization of the polycrystalline silicon-on-silicon dioxide characterization using spectroscopic ellipsometry, 210
spectroellipsometry characterization of directly bonded silicon-on-insulator structures, 218
study of thin films of transparent electronic materials by phase-modulated spectroellipsometry, 223
temperature dependence on the dielectric function of silicon using *in situ* spectroscopic ellipsometry, 166
Silicon dioxide
characterization of SiO_2–GaAs interface structures using spectroscopic ellipsometry, 236
Silicon nitride
ellipsometric characterization of hydrogen-rich oxynitride films, 227
IR ellipsometry investigations of N_2O-nitrided silicon oxide thin films on silicon, 337
Silicon oxide
characterisation of silicon on insulator multilayers using *ex situ* spectroscopic ellipsometry and *in situ* monochromatic ellipsometry during plasma etching, 214
characterization of radiative surface modes and anisotropy in Ag/SiO_2 multilayers, by visible and IR ellipsometry, 496
ellipsometric characterization of hydrogen-rich oxynitride films, 227
influence of temperature and pressure on the structure of remote plasma enhanced chemically vapour deposited SiO_2 investigated by spectroscopic ellipsometry, 240
investigation of the system InSb–SiO_2 by spectroscopic multiangle ellipsometry, 231
novel method for stabilizing the photoelastic modulator used in a polarization modulated spectroscopic ellipsometer, 390
IR ellipsometry investigations of N_2O-nitrided silicon oxide thin films on silicon, 337
Silver
characterization of radiative surface modes and anisotropy in Ag/SiO_2 multilayers, by visible and IR ellipsometry, 496
optical anisotropies of Ag single crystals, 24

Solar cells
in situ diagnosis of a-Si:H-metal interface reactions using IR spectroscopic reflectometry, 367
Sputtering
ellipsometry of ultrathin Mo and Si films, 500
spectroscopic variations of optical constant and emissivity of $Pt-Al_2O_3$ cermet thin films, 503
Structural properties
ellipsometric characterisation of InP-based quantum well structures, 180
optical spectra of a conducting polymer (polymer-3-thiophene) at several stages of the electrodeposition process, 91
spectroellipsometry characterization of directly bonded silicon-on-insulator structures, 218
spectroscopic ellipsometry: a useful tool to determine the refractive indices and interfaces of $In_{0.52}Al_{0.48}As$ and $In_{0.53}Al_xGa_{0.47-x}As$ on InP in the wavelength range from 280 to 1900 nm, 145
Sulphides
reflectance anisotropy spectroscopy: a new method for seimconductor surface chemistry investigation, 9
Specular optical activity in a-HgS, 545
Superconductivity
mid- and near-IR ellipsometry of $Y_{1-x}Pr_xBa_2Cu_3O_7$ epitaxial films, 518
optical study of the doping effect of oxygen in $YBa_2Cu_3O_y$ and $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals, 531
relationship between microstructure and optical properties in high T_c superconductors, 508
spectroscopic IR ellipsometry of [100] and [001] oriented $YBa_2Cu_3O_{7-\delta}$ films, 342
Superlattices
dielectric function of GaAs/AlAs superlattices grown on GaAs substrates with different orientation, 162
Si- and Ge-like features in the dielectric function of Si_nGe_m superlattices, 153
Surface and interface states
full microscopic treatment of the optical response of the Si(100) 2×1 surface, 28
hydrogen-terminated Si(100) surfaces investigated by reflectance anisotropy spectroscopy, 19
Surface composition
ex situ variable angle spectroscopic ellipsometry studies of electron cyclotron resonance etching of $Hg_{1-x}Cd_xTe$, 46
IR spectroscopic ellipsometry: instrumentation and applications in semiconductors, 356
modelling of ellipsometric data of inhomogeneous TiO_2 films, 458
surface characterization of metal plates exposed to atomic oxygen in space, 512
Surface plasmons
experimental roughness excitation of surface electromagnetic waves and their detection by ellipsometry, 53
Surface roughness
estimation of the quality of polished optical glass surfaces by spectral ellipsometry, 50
ex situ variable angle spectroscopic ellipsometry studies of electron cyclotron resonance ecthing of $Hg_{1-x}Cd_xTe$, 46
experimental roughness excitation of surface electromagnetic waves and their detection by ellipsometry, 53
investigation of ferrite surface treatments by spectroscopic ellipsometry, 566
surface roughness and optical properties of high quality Si epitaxial layers, 40
Surface structures
detection and characterization of transient surface periodic structures formed during pulsed-laser annealing of semiconductor surfaces by ellipsometry, 189
interfacial behaviour of non-ionic surfactants at the silica–water interface revealed by ellipsometry, 478

Titanium oxide
modelling of ellipsometric data of inhomogeneous TiO_2 films, 458
spectroellipsometric characterization of lanthanide-doped TiO_2 films obtained via the sol–gel technique, 561
Transparent materials
study of thin films of transparent electronic materials by phase-modulated spectroellipsometry, 223
Tungsten oxide
hydrogen diffusion and reaction processes in thin films investigated by real time spectroscopic ellipsometry, 276

Wetting
ellipsometric study of adsorption isotherms, 482

X-ray photoelectron spectroscopy
characterization of SiO_2–GaAs interface structures using spectroscopic ellipsometry, 236

Yttrium
optical properties of the Y–Ba cuprates: mainly a band structure point of view, 522

Zinc
circular birefringence in zinc-blende-type seimconductors, 137
Zinc oxide
ellipsometry study of non-uniform lateral growth of ZnO thin films, 286